



*[Handwritten signature]*

PTO/SB/21 (04-07)

Approved for use through 09/30/2007. OMB 0651-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/583,236
	Filing Date	March 6, 2007
	First Named Inventor	ZHU, Furong
	Art Unit	2879
	Examiner Name	Not Assigned
Total Number of Pages in This Submission	Attorney Docket Number	34018-1040

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	1. Return-receipt postcard
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	2. 35 Non-U.S. Documents
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm Name	Luce, Forward, Hamilton & Scripps LLP	
Signature	<i>[Handwritten signature]</i>	
Printed name	Mitchell P. Brook, Esq.	
Date	7/13/07	Reg. No. 32,967

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:		
Signature	<i>[Handwritten signature]</i>	
Typed or printed name	Anna M. Skolnick	Date 7/13/07

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Atty. Docket No.: 31854-1020

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:	)	Group Art Unit:	2879
Furong ZHU et al.	)		
Serial No.:	)	Examiner:	Not Assigned
10/583,236	)		
Filed:	)	Confirmation No.:	8256
March 6, 2007	)		
For:	)		
FLEXIBLE	)		
ELECTROLUMINESCENT	)		
DEVICES	)		

San Diego, California  
July 13, 2007

Mail Stop: AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Dear Sir or Madam:

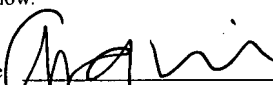
In accordance with 37 C.F.R. § 1.56, Applicants make the below-listed documents of record in the above-identified application. In accordance with 37 C.F.R. § 1.97, this statement is not to be construed as a representation that a search has been made, and is not a representation that the information cited is effective as prior art to the application or is material to patentability.

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence, and anything being referred to as enclosed herein, is being deposited with the United States Postal Service via first class mail with sufficient postage in an envelope addressed to the Mail stop AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

Date: July 13, 2007

Signature

  
Anna M. Skolnick

### U.S. Patents and Patent Applications

1. U.S. Patent No. 6,208,075 B1 to Hung et al., issued March 27, 2001;
2. U.S. Patent No. 6,208,077 B1 to Hung, issued March 27, 2001;
3. U.S. Patent No. 6,429,451 B1 to Hung et al., issued August 6, 2002;
4. U.S. Patent No. 6,483,236 B1 to Hung, issued November 19, 2002;
5. U.S. Patent No. 6,613,458 B1 to Lee et al., issued September 2, 2003;
6. U.S. Patent Publication No. US 2003/0099861 A1 to Lee et al., published May 29, 2003.

### Non-U.S. Patent and Patent Applications

1. European Patent No. EP 1 076 368 A2 to Eastman Kodak Company, published February 14, 2001.
2. European Patent No. EP 1 160 891 A2 to Eastman Kodak Company, published December 5, 2001;
3. European Patent No. EP 0 914 025 B1 to Eastman Kodak Company, April 10, 2002; and
4. International (PCT) Publication No. WO 03/050607 A1 to E Ink Corporation, published June 19, 2003;

### Non-Patent Literature

1. H. Lim et al., *Flexible Organic Electroluminescent Devices Based on Fluorine-Containing Colorless Polyimide Substrates*, Adv. Mater. 2002 September 16, 14(18): 1275-9;
2. G. Parthasarathy et al., *A Metal-Free Cathode for Organic Semiconductor Devices*, Appl. Phys. Lett. 1998 April 27, 72(17): 2138-40;
3. G. Gu et al., *A Metal-Free, Full-Color Stacked Organic Light-Emitting Device*, Appl. Phys. Lett. 1999 January 11, 74(2): 305-7;
4. D. Mathine et al., *Heterogeneously Integrated Organic Light-Emitting Diodes with Complementary Metal-Oxide-Silicon Circuitry*, Appl. Phys. Lett. 2000 June 26, 76(26): 3849-51;

5. A. Krasnov, *High-Contrast Organic Light-Emitting Diodes on Flexible Substrates*, Appl. Phys. Lett. 2002 May 20, 80(20): 3853-5;
6. M. Lu et al., *High-Efficiency Top-Emitting Organic Light-Emitting Devices*, Appl. Phys. Lett. 2002 November 18, 81(21): 3921-3;
7. T. Dobbertin et al., *Inverted Top-Emitting Organic Light-Emitting Diodes Using Sputter-Deposited Anodes*, Appl. Phys. Lett. 2003 January 13, 82(2): 284-6;
8. H. Riel et al., *Phosphorescent Top-Emitting Organic Light-Emitting Devices with Improved Light Outcoupling*, Appl. Phys. Lett. 2003 January 20, 82(3): 466-8;
9. R. Paetzold et al., *Performance of Flexible Polymeric Light-Emitting Diodes Under Bending Conditions*, Appl. Phys. Lett. 2003 May 12, 82(19): 3342-4;
10. S. Lai et al., *Applications of Ytterbium in Organic Light-Emitting Devices as High Performance and Transparent Electrodes*, Chem. Phys. Lett. 2002, 366(1-2): 128-33;
11. Z. Chen et al., *The Fracture of Brittle Thin Films on Compliant Substrates in Flexible Displays*, Eng. Fract. Mech. 2002, 69(5): 597-603;
12. *Flexible OLEDs and PolyLEDs Displays*, III-Vs Review 2003 May, 16(4): 23;
13. G. Gu et al., *Transparent Stacked Organic Light-Emitting Devices. I. Design Principles and Transparent Compound Electrodes*, J Appl. Phys. 1999 October 15, 86(8): 4067-75;
14. P. Burrows et al., *Semitransparent Cathodes for Organic Light Emitting Devices*, J Appl. Phys. 2000 March 15, 87(6): 3080-5;
15. H. Kim et al., *Effect of Film Thickness on the Properties of Indium Tin Oxide Thin Films*, J Appl. Phys. 2000 November 15, 88(10): 6021-5;
16. N. Isomura et al., *Photoemission Spectroscopy of the Interface between Indium-Tin-Oxide and Copper Phthalocyanine for Transparent Organic Light-Emitting Devices*, Jpn. J Appl. Phys. 2001 October 1, 40 pt 2(10A): L1038-9;
17. M. Gross et al., *Improving the Performance of Doped  $\pi$ -Conjugated Polymers for Use in Organic Light-Emitting Diodes*, Nature 2000 June 8, 405(6787): 661-5;
18. D. Sweatman, *Organic Devices: A Review*, Microelectronic Engineering Research Conference 2001;

19. M. Pfeiffer et al., *A Low Drive Voltage, Transparent, Metal-Free N-I-P Electrophosphorescent Light Emitting Diode*, Organic Electronics 2003 June, 4(1): 21-6;
20. I. Leung, *Organic Light Emitting Devices*, 2002 May 10;
21. J. Zhao et al., *A Bilayer Organic Light-Emitting Diode Using Flexible ITO Anode*, Phys. Stat. Sol. (a) 2001 March, 184(1): 233-8;
22. H. Aziz et al., *Degradation Mechanism of Small Molecule-Based Organic Light-Emitting Devices*, Science 1999 March 19, 283(5409): 1900-2;
23. X. Zhou et al., *High-Efficiency, Low-Voltage Stable Inverted Transparent Electrophosphorescent Organic Light-Emitting Diodes: Combining Electrically Doped Carrier Transport Layers and Iridium-Complex Doped Emissive Layer*, Synthetic Metals 2003 April 4; 137(1): 1063-4;
24. X. Zhou et al., *Inverted Transparent Multi-Layered Vacuum Deposited Organic Light-Emitting Diodes with Electrically Doped Carrier Transport Layers and Coumarin Doped Emissive Layer*, Synthetic Metals 2003 June 2, 138(1): 193-6;
25. P. Rendu et al., *Cellulose Acetate and PVDC Used as Protective Layers for Organic Diodes*, Synthetic Metals 2003 June 2, 138(1): 285-8;
26. L. Hung et al., *Radiation Damage and Transmission Enhancement in Surface-Emitting Organic Light-Emitting Diodes*, Thin Solid Films 2002 May 1, 410(1): 101-6;
27. Y. Tak et al., *Criteria for ITO (Indium-Tin-Oxide) Thin Film as the Bottom Electrode of an Organic Light-Emitting Diode*, Thin Solid Films 2002 May 22, 411(1): 12-6;
28. M. Auch et al., *Ultrathin Glass for Flexible OLED Application*, Thin Solid Films 2002 September 30, 417(1): 47-50;
29. H. Kim et al., *Doped ZnO Thin Films as Anode Materials for Organic Light-Emitting Diodes*, Thin Solid Films 2002 December 2, 420-1: 539-43;
30. K. Tamano et al., *Enhancement of Hole Injection by Metal Anode in Organic Light-Emitting Diodes*, Thin Solid Films 2003 August 22, 438-9: 182-6; and
31. H. Kajii et al., *Organic Light-Emitting Diode Fabricated on a Polymer Substrate for Optical Links*, Thin Solid Films 2003 August 22, 438-9: 334-8.

\* \* \*

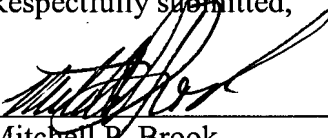
Copies of the U.S. patents and U.S. patent publications listed on the accompanying form PTO/SB/08 are not enclosed, in accordance with the waiver of the requirement of 37 C.F.R. § 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003. Copies of the above-listed non-U.S. documents, which are listed on the accompanying Form PTO/SB/08, are enclosed.

It is respectfully requested that these documents be (1) fully considered by the U.S. Patent and Trademark Office in the examination of the above-identified application; and (2) printed on any patent which may issue on this application. It is also respectfully requested that a copy of Form PTO/SB/08, as considered and initialed by the Examiner, be returned to the undersigned with the next communication in accordance with M.P.E.P. § 609.

This Information Disclosure Statement is filed prior to the mailing of the first Office Action, pursuant to 37 C.F.R. 1.97(b), therefore, it is believed that no fee is required in connection with this submission. If a fee is required, please charge Deposit Account No. 50-2298, in the name of Luce, Forward, Hamilton & Scripps LLP.

7/13/07  
\_\_\_\_\_  
Date

Respectfully submitted,

  
\_\_\_\_\_  
Mitchell P. Brook  
Attorney for Applicant(s)  
Reg. No. 32,967  
c/o Luce, Forward, Hamilton & Scripps LLP  
11988 El Camino Real, Suite 200  
San Diego, California 92130  
Telephone: (858) 720-6300



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Complete if Known</b>			
		Application Number	10/583,236		
		Filing Date	March 6, 2007		
		First Named Inventor	ZHU, Furong		
		Art Unit	2879		
		Examiner Name	Not Assigned		
Sheet	2	of	5	Attorney Docket Number	34018-1040

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		H. LIM et al., Flexible Organic Electroluminescent Devices Based on Fluorine-Containing Colorless Polyimide Substrates, Adv. Mater. 2002 September 16; 14(18): 1275-9.	
		G. PARTHASARATHY et al., A Metal-Free Cathode for Organic Semiconductor Devices, Appl. Phys. Lett. 1998 April 27; 72(17): 2138-40.	
		G. GU et al., A Metal-Free, Full-Color Stacked Organic Light-Emitting Device, Appl. Phys. Lett. 1999 January 11; 74(2): 305-7.	
		D. MATHINE et al., Heterogeneously Integrated Organic Light-Emitting Diodes with Complementary Metal-Oxide-Silicon Circuitry, Appl. Phys. Lett. 2000 June 26, 76(26): 3849-51.	
		A. KRASNOV, High-Contrast Organic Light-Emitting Diodes on Flexible Substrates, Appl. Phys. Lett. 2002 May 20, 80(20): 3853-5.	
		M. LU et al., High-Efficiency Top-Emitting Organic Light-Emitting Devices, Appl. Phys. Lett. 2002 November 18, 81(21): 3921-3.	
		T. DOBBERTIN et al., Inverted Top-Emitting Organic Light-Emitting Diodes Using Sputter-Deposited Anodes, Appl. Phys. Lett. 2003 January 13; 82(2): 284-6.	
		H. RIEL et al., Phosphorescent Top-Emitting Organic Light-Emitting Devices with Improved Light Outcoupling, Appl. Phys. Lett. 2003 January 20, 82(3): 466-8.	
		R. PAETZOLD et al., Performance of Flexible Polymeric Light-Emitting Diodes Under Bending Conditions, Appl. Phys. Lett. 2003 May 12, 82(19): 3342-4.	
		S. LAI et al., Applications of Ytterbium in Organic Light-Emitting Devices as High Performance and Transparent Electrodes, Chem. Phys. Lett. 2002, 366(1-2): 128-33.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO:**

**Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Complete if Known</b>			
		Application Number	10/583,236		
		Filing Date	March 6, 2007		
		First Named Inventor	ZHU, Furong		
		Art Unit	2879		
		Examiner Name	Not Assigned		
Sheet	3	of	5	Attorney Docket Number	34018-1040

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Z. CHEN ET AL., The Fracture of Brittle Thin Films on Compliant Substrates in Flexible Displays, Eng. Fract. Mech. 2002, 69(5): 597-603.	
		Flexible OLEDs and PolyLEDs Displays, III-Vs Review 2003 May, 16(4): 23.	
		G. GU et al., Transparent Stacked Organic Light-Emitting Devices. I. Design Principles and Transparent Compound Electrodes, J Appl. Phys. 1999 October 15, 86(8): 4067-75.	
		P. BURROWS et al., Semitransparent Cathodes for Organic Light Emitting Devices, J Appl. Phys. 2000 March 15, 87(6): 3080-5.	
		H. KIM et al., Effect of Film Thickness on the Properties of Indium Tin Oxide Thin Films, J Appl. Phys. 2000 November 15; 88(10): 6021-5.	
		N. ISOMURA et al., Photoemission Spectroscopy of the Interface between Indium-Tin-Oxide and Copper Phthalocyanine for Transparent Organic Light-Emitting Devices, Jpn. J. Appl. Phys. 2001 October 1, 40 pt 2(10A): L1038-9.	
		M. GROSS et al., Improving the Performance of Doped $\pi$ -Conjugated Polymers for Use in Organic Light-Emitting Diodes, Nature 2000 June 8, 405(6787): 661-5.	
		D. SWEATMAN, Organic Devices: A Review, Microelectronic Engineering Research Conference 2001.	
		M. PFEIFFER et al., A Low Drive Voltage, Transparent, Metal-Free N-I-P Electrophosphorescent Light Emitting Diode, Organic Electronics 2003 June, 4(1): 21-6.	
		I. LEUNG, Organic Light Emitting Devices, 2002 May 10.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Complete if Known</b>			
		Application Number	10/583,236		
		Filing Date	March 6, 2007		
		First Named Inventor	ZHU, Furong		
		Art Unit	2879		
		Examiner Name	Not Assigned		
Sheet	4	of	5	Attorney Docket Number	34018-1040

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		J. ZHAO et al., A Bilayer Organic Light-Emitting Diode Using Flexible ITO Anode, Phys. Stat. Sol. (a) 2001 March, 184(1): 233-8.	
		H. AZIZ et al., Degradation Mechanism of Small Molecule-Based Organic Light-Emitting Devices, Science 1999 March 19, 283(5409): 1900-2.	
		X. ZHOU et al., High-Efficiency, Low-Voltage Stable Inverted Transparent Electrophosphorescent Organic Light-Emitting Diodes: Combining Electrically Doped Carrier Transport Layers and Iridium-Complex Doped Emissive Layer, Synthetic Metals 2003 April 4; 137(1): 1063-4.	
		X. ZHOU et al., Inverted Transparent Multi-Layered Vacuum Deposited Organic Light-Emitting Diodes with Electrically Doped Carrier Transport Layers and Coumarin Doped Emissive Layer, Synthetic Metals 2003 June 2, 138(1): 193-6.	
		P. RENDU et al., Cellulose Acetate and PVDC Used as Protective Layers for Organic Diodes, Synthetic Metals 2003 June 2, 138(1): 285-8.	
		L. HUNG et al., Radiation Damage and Transmission Enhancement in Surface-Emitting Organic Light-Emitting Diodes, Thin Solid Films 2002 May 1, 410(1): 101-6.	
		Y. TAK et al., Criteria for ITO (Indium-Tin-Oxide) Thin Film as the Bottom Electrode of an Organic Light-Emitting Diode, Thin Solid Films 2002 May 22, 411(1): 12-6.	
		M. AUCH et al., Ultrathin Glass for Flexible OLED Application, Thin Solid Films 2002 September 30, 417(1): 47-50.	
		H. KIM et al., Doped ZnO Thin Films as Anode Materials for Organic Light-Emitting Diodes, Thin Solid Films 2002 December 2, 420-1: 539-43.	
		K. TAMANO et al., Enhancement of Hole Injection by Metal Anode in Organic Light-Emitting Diodes, Thin Solid Films 2003 August 22, 438-9: 182-6.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<p>Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.</p> <p>Substitute for form 1449/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p><i>(Use as many sheets as necessary)</i></p>				<b>Complete if Known</b>	
				Application Number	10/583,236
				Filing Date	March 6, 2007
				First Named Inventor	ZHU, Furong
				Art Unit	2879
				Examiner Name	Not Assigned
				Attorney Docket Number	34018-1040
Sheet	5	of	5		

[illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:**

*If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.*

Substitute for form 1449/PT

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	5
-------	---	----	---

**Complete if Known**

Application Number	10/583,236
Filing Date	March 6, 2007
First Named Inventor	ZHU, Furong
Art Unit	2879
Examiner Name	Not Assigned
Attorney Docket Number	34018

## U. S. PATENT DOCUMENTS

[illegible]

**FOREIGN PATENT DOCUMENTS**

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		EP 1 076 368 A2	02-14-2001	Eastman Kodak Company		
		EP 1 160 891 A2	12-05-2001	Eastman Kodak Company		
		EP 0 914 025 B1	04-10-2002	Eastman Kodak Company		
		WO 03/050607 A1	06-19-2003	E Ink Corporation		

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.*

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

**Complete if Known**

Sheet	2	of	5	Application Number	10/583,236
				Filing Date	March 6, 2007
				First Named Inventor	ZHU, Furong
				Art Unit	2879
				Examiner Name	Not Assigned
				Attorney Docket Number	34018-1040

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		H. LIM et al., Flexible Organic Electroluminescent Devices Based on Fluorine-Containing Colorless Polyimide Substrates, Adv. Mater. 2002 September 16; 14(18): 1275-9.	
		G. PARTHASARATHY et al., A Metal-Free Cathode for Organic Semiconductor Devices, Appl. Phys. Lett. 1998 April 27; 72(17): 2138-40.	
		G. GU et al., A Metal-Free, Full-Color Stacked Organic Light-Emitting Device, Appl. Phys. Lett. 1999 January 11; 74(2): 305-7.	
		D. MATHINE et al., Heterogeneously Integrated Organic Light-Emitting Diodes with Complementary Metal-Oxide-Silicon Circuitry, Appl. Phys. Lett. 2000 June 26, 76(26): 3849-51.	
		A. KRASNOV, High-Contrast Organic Light-Emitting Diodes on Flexible Substrates, Appl. Phys. Lett. 2002 May 20, 80(20): 3853-5.	
		M. LU et al., High-Efficiency Top-Emitting Organic Light-Emitting Devices, Appl. Phys. Lett. 2002 November 18, 81(21): 3921-3.	
		T. DOBBERTIN et al., Inverted Top-Emitting Organic Light-Emitting Diodes Using Sputter-Deposited Anodes, Appl. Phys. Lett. 2003 January 13; 82(2): 284-6.	
		H. RIEL et al., Phosphorescent Top-Emitting Organic Light-Emitting Devices with Improved Light Outcoupling, Appl. Phys. Lett. 2003 January 20, 82(3): 466-8.	
		R. PAETZOLD et al., Performance of Flexible Polymeric Light-Emitting Diodes Under Bending Conditions, Appl. Phys. Lett. 2003 May 12, 82(19): 3342-4.	
		S. LAI et al., Applications of Ytterbium in Organic Light-Emitting Devices as High Performance and Transparent Electrodes, Chem. Phys. Lett. 2002, 366(1-2): 128-33.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/583,236
Filing Date	March 6, 2007
First Named Inventor	ZHU, Furong
Art Unit	2879
Examiner Name	Not Assigned
Attorney Docket Number	34018-1040

Sheet

3

of

5

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Z. CHEN ET AL., The Fracture of Brittle Thin Films on Compliant Substrates in Flexible Displays, Eng. Fract. Mech. 2002, 69(5): 597-603.	
		Flexible OLEDs and PolyLEDs Displays, III-Vs Review 2003 May, 16(4): 23.	
		G. GU et al., Transparent Stacked Organic Light-Emitting Devices. I. Design Principles and Transparent Compound Electrodes, J Appl. Phys. 1999 October 15, 86(8): 4067-75.	
		P. BURROWS et al., Semitransparent Cathodes for Organic Light Emitting Devices, J Appl. Phys. 2000 March 15, 87(6): 3080-5.	
		H. KIM et al., Effect of Film Thickness on the Properties of Indium Tin Oxide Thin Films, J Appl. Phys. 2000 November 15; 88(10): 6021-5.	
		N. ISOMURA et al., Photoemission Spectroscopy of the Interface between Indium-Tin-Oxide and Copper Phthalocyanine for Transparent Organic Light-Emitting Devices, Jpn. J. Appl. Phys. 2001 October 1, 40 pt 2(10A): L1038-9.	
		M. GROSS et al., Improving the Performance of Doped $\pi$ -Conjugated Polymers for Use in Organic Light-Emitting Diodes, Nature 2000 June 8, 405(6787): 661-5.	
		D. SWEATMAN, Organic Devices: A Review, Microelectronic Engineering Research Conference 2001.	
		M. PFEIFFER et al., A Low Drive Voltage, Transparent, Metal-Free N-I-P Electrophosphorescent Light Emitting Diode, Organic Electronics 2003 June, 4(1): 21-6.	
		I. LEUNG, Organic Light Emitting Devices, 2002 May 10.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Complete if Known</b>			
		Application Number	10/583,236		
		Filing Date	March 6, 2007		
		First Named Inventor	ZHU, Furong		
		Art Unit	2879		
		Examiner Name	Not Assigned		
Sheet	4	of	5	Attorney Docket Number	34018-1040

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		J. ZHAO et al., A Bilayer Organic Light-Emitting Diode Using Flexible ITO Anode, Phys. Stat. Sol. (a) 2001 March, 184(1): 233-8.	
		H. AZIZ et al., Degradation Mechanism of Small Molecule-Based Organic Light-Emitting Devices, Science 1999 March 19, 283(5409): 1900-2.	
		X. ZHOU et al., High-Efficiency, Low-Voltage Stable Inverted Transparent Electrophosphorescent Organic Light-Emitting Diodes: Combining Electrically Doped Carrier Transport Layers and Iridium-Complex Doped Emissive Layer, Synthetic Metals 2003 April 4; 137(1): 1063-4.	
		X. ZHOU et al., Inverted Transparent Multi-Layered Vacuum Deposited Organic Light-Emitting Diodes with Electrically Doped Carrier Transport Layers and Coumarin Doped Emissive Layer, Synthetic Metals 2003 June 2, 138(1): 193-6.	
		P. RENDU et al., Cellulose Acetate and PVDC Used as Protective Layers for Organic Diodes, Synthetic Metals 2003 June 2, 138(1): 285-8.	
		L. HUNG et al., Radiation Damage and Transmission Enhancement in Surface-Emitting Organic Light-Emitting Diodes, Thin Solid Films 2002 May 1, 410(1): 101-6.	
		Y. TAK et al., Criteria for ITO (Indium-Tin-Oxide) Thin Film as the Bottom Electrode of an Organic Light-Emitting Diode, Thin Solid Films 2002 May 22, 411(1): 12-6.	
		M. AUCH et al., Ultrathin Glass for Flexible OLED Application, Thin Solid Films 2002 September 30, 417(1): 47-50.	
		H. KIM et al., Doped ZnO Thin Films as Anode Materials for Organic Light-Emitting Diodes, Thin Solid Films 2002 December 2, 420-1: 539-43.	
		K. TAMANO et al., Enhancement of Hole Injection by Metal Anode in Organic Light-Emitting Diodes, Thin Solid Films 2003 August 22, 438-9: 182-6.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/583,236
Filing Date	March 6, 2007
First Named Inventor	ZHU, Furong
Art Unit	2879
Examiner Name	Not Assigned
Attorney Docket Number	34018-1040

Sheet

5

of

5

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		H. KAJII et al., Organic Light-Emitting Diode Fabricated on a Polymer Substrate for Optical Links, Thin Solid Films 2003 August 22, 438-9: 334-8.	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.